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(54) Title: CARBOHYDRATE-DERIVATIZED LIPOSOMES FOR TARGETING CELLULAR CARBOHYDRATE RECOGNITION DOMAINS OF CTL/CTLD LECTINS, AND INTRACELLULAR DELIVERY OF THERAPEUTICALLY ACTIVE COMPOUNDS

(57) **Abstract:** Methods for preferentially delivering an active agent intracellularly to a reservoir cell that is infected with or susceptible to infection with an infectious agent, such as HIV. The active agent is part of a lipid-active agent complex that has a targeting ligand, such as a CTL/CTLD receptor-specific anchor, on its outer surface. Targeting systems are also disclosed. Such targeting systems are comprised of lipid-active agent complexes that contain targeting ligands, such as fucose and polyfucose derivatives, on their outer surfaces. The active agents include plant lectins, such as Con-A and MHL, and other drugs. Such methods and targeting systems may be used in the treatment of HIV and other infectious and non-infectious diseases.